CLAIMS

What is claimed is:

| | | 1 1 |
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| 1 | 1. | A method for protecting a computer in an opened share mode, comprising: |
| 2 | (a) | running a computer on a network in an opened share mode; |
| 3 | (b) | monitoring attempts to access the computer by applications utilizing the |
| 4 | | network; |
| 5 | (c) | determining whether the applications attempt to modify the computer; and |
| 6 | (d) | executing a security event in response to any attempt to modify the computer |
| 1 | 2. | The method as recited in claim 1, wherein the opened share mode allows |
| 2 | | other computers on the network to access data stored on the computer. |
| 1 | 3. | The method as recited in claim 1, wherein the opened share mode includes a |
| 2 | | virtual opened share mode. |
| 1 | 4. | The method as recited in claim 3, wherein the virtual opened share mode |
| 2 | | indicates to other computers of an ability to write to the computer. |
| 1 | 5. | The method as recited in claim 4, wherein the computer operates in the |
| 2 | | virtual opened share mode by modifying an application program interface. |
| 1 | 6. | The method as recited in claim 5, wherein the application program interface |
| 2 | | includes an operating system application program interface. |
| 1 | 7. | The method as recited in claim 5, wherein the application program interface |
| 2 | | includes a network application program interface. |

- 1 8. The method as recited in claim 1, wherein the opened share mode indicates a file structure parameter and a name parameter.
- 1 9. The method as recited in claim 1, wherein the opened share mode indicates a plurality of parameters that are randomly selected to prevent detection.
- 1 10. The method as recited in claim 1, wherein the opened share mode applies to each of a plurality of networks of which the computer is a member.
- 1 11. The method as recited in claim 1, wherein the opened share mode applies 2 only to a predetermined list of application programs executable on the

3 computer.

- 1 12. The method as recited in claim 11, wherein the predetermined list is created manually.
- 1 13. The method as recited in claim 11, wherein the predetermined list is created automatically.
- 1 14. The method as recited in claim 1, wherein the computer is run on the network in a plurality of opened share modes.
- 1 15. The method as recited in claim 1, wherein any attempt to modify the
 2 computer is utilized in a heuristic analysis for identifying a coordinated
 3 attack on multiple computers.
- 1 16. The method as recited in claim 1, wherein attempts to modify the computer 2 are tracked.
- 1 17. The method as recited in claim 1, wherein it is determined whether the
 2 applications attempt to write to memory in the computer, and the security

| 3 | | event is executed in response to any attempt to write to memory in the |
|---|-----|-------------------------------------------------------------------------------|
| 4 | | computer. |
| | | |
| 1 | 18. | The method as recited in claim 1, wherein it is determined whether the |
| 2 | | applications attempt to copy a virus to memory in the computer, and the |
| 3 | | security event is executed in response to any attempt to copy the virus to |
| 4 | | memory in the computer. |
| | | |
| 1 | 19. | The method as recited in claim 1, wherein the security event includes logging |
| 2 | | the computer off the network in response to any attempt to modify the |
| 3 | | computer. |
| | | |
| 1 | 20. | The method as recited in claim 1, wherein the security event includes |
| 2 | | terminating the application attempting to modify the computer. |
| | | |
| 1 | 21. | The method as recited in claim 1, wherein the security event includes |
| 2 | | deleting the application attempting to modify the computer. |
| | | |

- The method as recited in claim 1, wherein the security event includes an alert 22. 1 transmitted via the network. 2
- The method as recited in claim 22, wherein the alert includes information 23. 1 associated with the application attempting to modify the computer. 2
- A computer program product for protecting a computer in an opened share 24. 1 mode, comprising: 2
- computer code for running a computer on a network in an opened share 3 (a) mode;
- computer code for monitoring attempts to access the computer by 5 (b)
- 6 applications utilizing the network;

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computer code for determining whether the applications attempt to modify

(c)

| 8 | | the computer; and |
|----|-----|------------------------------------------------------------------------------|
| 9 | (d) | computer code for executing a security event in response to any attempt to |
| 10 | | modify the computer. |
| i | 25. | The computer program product as recited in claim 24, wherein the network |
| 2 | | includes the Internet. |
| 1 | 26. | The computer program product as recited in claim 24, wherein the opened |
| 2 | | share mode allows other computers on the network to access data stored on |
| 3 | | the computer. |
| 1 | 27. | The computer program product as recited in claim 24, wherein the opened |
| 2 | | share mode includes a virtual opened share mode. |
| 1 | 28. | The computer program product as recited in claim 27, wherein the virtual |
| 2 | | opened share mode indicates to other computers of an ability to write to the |
| 3 | | computer. |
| 1 | 29. | The computer program product as recited in claim 28, wherein the computer |
| 2 | | operates in the virtual opened share mode by modifying an application |
| 3 | | program interface. |
| 1 | 30. | The computer program product as recited in claim 29, wherein the |
| 2 | | application program interface includes an operating system application |
| 3 | | program interface. |
| 1 | 31. | The computer program product as recited in claim 30, wherein the |
| 2 | | application program interface includes a network application program |
| 2 | | interface |

- 1 32. The computer program product as recited in claim 24, wherein the opened
- 2 share mode indicates a file structure parameter and a name parameter.
- 1 33. The computer program product as recited in claim 24, wherein the opened
- 2 share mode indicates a plurality of parameters that are randomly selected to
- 3 prevent detection.
- 1 34. The computer program product as recited in claim 24, wherein the opened
- share mode applies to each of a plurality of networks of which the computer
- 3 is a member.
- 1 35. The computer program product as recited in claim 24, wherein the opened
- 2 share mode applies only to a predetermined list of application programs
- 3 executable on the computer.
- 1 36. The computer program product as recited in claim 35, wherein the
- 2 predetermined list is created manually.
- 1 37. The computer program product as recited in claim 35, wherein the
- 2 predetermined list is created automatically.
- 1 38. The computer program product as recited in claim 24, wherein the computer
- 2 is run on the network in a plurality of opened share modes.
- 1 39. The computer program product as recited in claim 24, wherein any attempt to
- 2 modify the computer is utilized in a heuristic analysis for identifying a
- 3 coordinated attack on multiple computers.
- 1 40. The computer program product as recited in claim 24, wherein attempts to
- 2 modify the computer are tracked.

| 1 | 41. | The computer program product as recited in claim 24, wherein it is |
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| 2 | | determined whether the applications attempt to write to memory in the |
| 3 | | computer, and the security event is executed in response to any attempt to |
| 4 | | write to memory in the computer. |

- 1 42. The computer program product as recited in claim 24, wherein it is
 2 determined whether the applications attempt to copy a virus to memory in the
 3 computer, and the security event is executed in response to any attempt to
 4 copy the virus to memory in the computer.
- 1 43. The computer program product as recited in claim 24, wherein the security
 2 event includes logging the computer off the network in response to any
 3 attempt to modify the computer.
- 1 44. The computer program product as recited in claim 24, wherein the security
 2 event includes terminating the application attempting to modify the
 3 computer.
- 1 45. The computer program product as recited in claim 24, wherein the security 2 event includes deleting the application attempting to modify the computer.
- 1 46. The computer program product as recited in claim 24, wherein the security 2 event includes an alert transmitted via the network.
- 1 47. The computer program product as recited in claim 46, wherein the alert
 2 includes information associated with the application attempting to modify the
 3 computer.
- 1 48. The computer program product as recited in claim 24, wherein at least a portion of the computer code resides on a gateway.

- 1 49. The computer program product as recited in claim 48, wherein the security 2 event includes blocking access to the computer. 50. A system for protecting a computer in an opened share mode, comprising: 1 2 logic for running a computer on a network in an opened share mode; (a) 3 (b) logic for monitoring attempts to access the computer by applications utilizing 4 the network; logic for determining whether the applications attempt to modify the 5 (c) 6 computer; and logic for executing a security event in response to any attempt to modify the 7 (d) 8 computer. A method for protecting a computer in an opened share mode, comprising: 1 51. 2
 - (a) running a computer on a network in a virtual opened share mode, wherein the
- 3 virtual opened share mode allows other computers on the network to access
- 4 predetermined data and programs resident on the computer, and indicates to
- 5 other computers of an ability to write to the computer;
- 6 (b) monitoring attempts to access the computer by applications utilizing the
- 7 network:
- 8 determining whether the applications attempt to modify the computer; (c)
- 9 (d) tracking the attempts of the applications to modify the computers;
- 10 transmitting an alert via the network in response to any attempt to modify the (e)
- 11 computer, wherein the alert includes information associated with the
- 12 applications attempting to modify the computer;
- 13 (f) logging the computer off the network in response to any attempt to modify
- 14 the computer; and
- 15 deleting any application attempting to modify the computer; (g)
- 16 (h) wherein any attempt to modify the computer is utilized in a heuristic analysis
- 17 for identifying a coordinated attack on multiple computers.

| 1 | 52. | A computer program product for protecting a computer in an opened share |
|----|-----|--------------------------------------------------------------------------------|
| 2 | | mode, comprising: |
| 3 | (a) | computer code for running a computer on a network in a virtual opened shar |
| 4 | | mode, wherein the virtual opened share mode allows other computers on the |
| 5 | | network to access predetermined data and programs resident on the |
| 6 | | computer, and indicates to other computers of an ability to write to the |
| 7 | | computer; |
| 8 | (b) | computer code for monitoring attempts to access the computer by |
| 9 | | applications utilizing the network; |
| 10 | (c) | computer code for determining whether the applications attempt to modify |
| 11 | | the computer; |
| 12 | (d) | computer code for tracking the attempts of the applications to modify the |
| 13 | | computers; |
| 14 | (e) | computer code for transmitting an alert via the network in response to any |
| 15 | | attempt to modify the computer, wherein the alert includes information |
| 16 | | associated with the applications attempting to modify the computer; |
| 17 | (f) | computer code for logging the computer off the network in response to any |
| 18 | | attempt to modify the computer; and |
| 19 | (g) | computer code for deleting any application attempting to modify the |
| 20 | | computer; |
| 21 | (h) | wherein any attempt to modify the computer is utilized in a heuristic analysis |
| 22 | | for identifying a coordinated attack on multiple computers. |